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This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) An electrical connector, comprising:

a housing body having a tubular plugging face for plugging ~~[[in]]~~ to a mating connector, ~~said tubular plugging face having a sectional shape of a substantially square with respect to a sectional plane perpendicular to a direction of plugging into said mating connector,~~

said tubular plugging face including a square tubular portion having a rectangular section in a plane perpendicular to said plugging direction and a cylindrical portion having a circular section in said plane ~~sectional shapes of a square and a circle, respectively, with respect to said sectional plane, which are overlapped with each other,~~

said circular section having a diameter greater than a height of but smaller than a width of said rectangular section and overlapping a central portion of said rectangular section in said plane; and

at least one key or ~~at least one~~ key groove provided on or in said cylindrical portion ~~[[and]]~~ for preventing a plugging error to said mating connector.

2. (Currently amended) The electrical connector according to claim 1, wherein said tubular plugging face includes at least one additional key or ~~at least one additional~~ key groove provided on or in said square tubular portion.

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3. (Currently amended) The electrical connector according to claim 1 or 2, wherein said electrical connector is a plug connector having a plugging projection section,

said tubular plugging face is provided ~~[[in]]~~ on an outer surface of said plugging projection section, and

said key groove provided in an outer surface of said cylindrical portion.

4. (Currently amended) The electrical connector according to claim 1 or 2, wherein said electrical connector is a receptacle connector having a plugging cavity section,

said tubular plugging face is provided on an inner surface of said plugging cavity section, and

said key is provided ~~[[in]]~~ on an inner surface of said cylindrical portion.

5. (Original) The electrical connector according to claim 1 or 2, wherein said cylindrical portion accommodates a coaxial terminal which is concentric with said cylindrical portion.

6. (Original) The electrical connector according to claim 5, wherein said coaxial terminal comprises a cylindrical outer conductor and a projection extending in a plugging direction of said outer conductor, wherein a groove for receiving said projection is provided in a coaxial terminal of said mating connector.

7. (Currently amended) The electrical connector according to claim 3, wherein said ~~receptacle~~ plug connector comprises ~~[[a]]~~ at least one flexible lock arm provided outside ~~a region of~~ said cylindrical portion but inside ~~a region of~~ said square tubular portion, extending

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in said plugging direction, and having a lock engagement claw at a ~~[[top]]~~ front end thereof.

8. (Original) The electrical connector according to claim 7, wherein said cylindrical portion accommodates a coaxial terminal which is concentric with said cylindrical portion and said square tubular portion accommodates a signal terminal between cylindrical portion and said flexible lock arm.